1) HLA associations

HLA – A3	Haemochromatosis
HLA – B51	Bechet's disease
HLA-B27	Ankylosing spondylitis, reactive arthritis, acute anterior uveitis, psoriatic arthritis
HLA-DQ2/DQ8	Coeliac disease
HLA DR2	Narcolepsy, Goodpasture's
HLA DR3	Dermatitis herpetiformis, Sjogren's syndrome, PBC, type 1 diabetes
HLA DR4	Type 1 diabetes, RA,

2) Some antibodies and disease associated with it

Anti DS DNA/anti smith DNA	SLE
Anti-histone	Drug induced lupus
Anti SCL	Systemic sclerosis(diffuse)
Anti-centromere	Systemic sclerosis(limited)
Anti JO 1	Polymyositis
Anti RO/anti LA	Sjogren's disease
Anti-mitochondrial	PBS
Anti-smooth muscle antibody Anti -Liver kidney microsomal antibody	Auto immune hepatitis
P ANCA (Anti-MPO)	Churg Strauss syndrome
C ANCA (Anti-PR3)	Wegener granulomatosis
Anti-tissue transglutaminase Anti-Gliadin Anti Endomysial antibody	Coeliac disease
Anti Hu	Small cell lung cancer, neuroblastoma, prostate cancer
Intrinsic factor antibody	Pernicious anaemia secondary to B12 deficiency
Anti Ri	Neuroblastoma, breast cancer
Anti YO	Gynaecological tumour

3) Examples of monoclonal antibodies

Monoclonal Antibodies	Mechanism of Action
Eculizumab	C5 inhibitor

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Monoclonal Antibodies	Mechanism of Action
Evolocumab	PCSK9 inhibitor
Bezalotuzumab	Neutralizes toxins of *Clostridium difficile*
Imatinib, Dasatinib	Tyrosine kinase inhibitors
Denosumab	RANKL inhibitor
Rituximab	CD20 inhibitor
Infliximab	Anti-TNF alpha
Trastuzumab	HER2/neu inhibitor
Golimumab, Infliximab, Etanercept, Adalimumab	TNF alpha inhibitors
Ustekinumab	IL-12 and IL-23 inhibitors
Secukinumab	IL-17 inhibitor
Abatacept	CTLA-4 inhibitor
Anakinra, Canakinumab	IL-1 inhibitors
Alemtuzumab	CD52 inhibitor
Bevacizumab	VEGF inhibitor
Caplacizumab	Anti-VWF (von Willebrand factor)
Idarucizumab	Reversal of dabigatran
Tocilizumab	IL-6 inhibitors,
Apremilast, Roflumilast	PDE4 inhibitors
Sorafenib	Multikinase inhibitor
Ciclosporin, Tacrolimus	Calcineurin inhibitors
Nivolumab, Pembrolizumab	PD-1 inhibitors
Cetuximab	EGFR inhibitor
Mepolizumab	Anti-IL-5

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Monoclonal Antibodies	Mechanism of Action
Omalizumab	Anti-IgE
Lumacaftor	Increases CFTR expression
Ivacaftor	Potentiates CFTR
Sirolimus, Daclizumab, Baziliximab	IL-2 inhibitors
Mycophenolate	Inosine 5-monophosphate inhibitor
Vedolizumab	α4β7 integrin inhibitor
Teprotumumab	Blocks IGF-1R protein (Use: Thyroid eye disease)

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